

AMENDMENTS TO THE SPECIFICATION

Kindly amend the paragraph on page 23, lines 6-18 as follows:

Fig. 1 shows the general principal of pumping based on the formation of a single vapour bubble. A light source 1 emits a light beam 2 that is directed towards a light absorbing material 3 at the wall of a micro channel 4. The substrate holding the micro channel 4 may be silicon and the light absorbing material 3 may be aluminum nitride. The micro channel 4 is filled with aqueous liquid, which evaporates at the position where the light beam heats up the light absorbing material and forms a vapour bubble 5. By allowing the light beam 2 to move from A to B on the light absorbing material 3, the vapour bubble 5 will move in the same direction as the light beam 2, thus forcing the liquid of the micro channel 1 to move in the same direction as the light beam 2. The light beam 2 of the light source 1 is directed by the means adapted for moving the light beam 6 which preferably is a silicon mirror moved by piezo electric actuators and controlled by a computer system (~~ne~~ not shown). Thus, via the computer system it is possible to irradiate any position of at least part of the micro system with the light beam 2. As noted above, a thermopile element 50 is optionally provided for detection of the temperature of the liquid.